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ABSTRACT OF THE DISCLOSURE

A shaft actuator for a transmission. A first electromagnetic solenoid is provided to operate a shifting mechanism of the transmission to a first shifted position. A second electromagnetic solenoid is provided to operate the shifting mechanism to a second shifted position. A neutral operation member is mounted on the shifting mechanism to bring the shifting mechanism to a neutral position lying between the first shifted position and the second shifted position. A neutral limitation member can move to a first position, where the neutral operation member is permitted to be operated to the first shifted position and to the second shifted position, and to a second position, where the neutral operation member is brought to the neutral position. An electromagnetic solenoid for neutral can bring the neutral limitation member to the second position.